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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Daniel Lecomte

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CONNOLLY BOVE LODGE & HUTZ LLP
1875 EYE STREET, N.W.
SUITE 1100
WASHINGTON, DC 20006

EXAMINER

DOAN, TRANG T

ART UNIT

PAPER NUMBER

2431

MAIL DATE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/592,968	Applicant(s) LECOMTE ET AL.	
	Examiner TRANG DOAN	Art Unit 2431	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 9-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 September 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is in response to the amendment filed on 03/03/2010.
2. Claims 17-34 have been added.
3. Claims 1-7 and 9-34 are pending for consideration.

Response to Arguments

4. The new Drawings have been considered.
5. The 35 USC 112, 2nd paragraph, and 35 USC 101 rejections have been withdrawn.
6. Applicant's arguments with respect to claims 1-7 and 9-16 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-7, 9-11, 13, 15-22 and 24-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dawson (US 7382969) (hereinafter Dawson) in view of Motta et al. (US20040221192) (hereinafter Motta), and further in view of Lengyel et al. (US6606095) (hereinafter Lengyel).

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Regarding claims 1, 15, 16, 20 and 24, Dawson discloses analyzing the succession of frames of the original stream, using an analysis module, to generate a main stream and complementary information, separately forwarding the modified main stream and the complementary information to equipment at an addressee (Dawson: column 5 lines 56-67; and column 6 lines 1-10), wherein analyzing the original stream comprises: generating data comprising sequences of random values with known parameters (Dawson: column 8 lines 35-44: blocks of censored content (e.g., extracted video signal content 405) may be extracted at random), extracting original data from the original stream as a function of the value of the random sequences to produce a modified main stream (Dawson: column 4 lines 50-67; and column 5 lines 1-15: extracted from a video signal and replaced with marred content), and storing data from at least one of the sequences of random values and the extracting in the complementary (Dawson: column 5 lines 25-27; and column 7 lines 35-40).

Dawson discloses the generating, extracting, and storing step using sequences of random values not pseudorandom values. However, Motta discloses the generating, extracting, and storing steps using pseudorandom values (Motta: paragraph 0030). Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to have included in Dawson the feature of Motta as discussed above to secure a transmission in a public communication network.

Dawson in view of Motta discloses reconstructing a stream in the original format at the addressee, as a function of the modified main stream and the complementary information (Dawson: column 5 lines 56-67; and column 6 lines 1-10). Dawson in view

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of Motta does not disclose a synthesis module. However, Lengyel discloses the synthesis module for a stream (Lengyel: column 19 lines 34-42). Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to have included in Dawson in view of Motta the feature of Lengyel so that the original stream can be reconstructed.

Regarding claims 2 and 25, Dawson as modified by Motta and Lengyel discloses wherein all the data comprising the sequences of pseudorandom values and the extracted original data is stored in the complementary information (Dawson: column 5 lines 25-27; and column 7 lines 35-40).

Regarding claims 3 and 26, Dawson as modified by Motta and Lengyel discloses wherein some of the data comprising the sequences of pseudorandom values and the extracted original data is stored in the complementary information (Dawson: column 5 lines 25-27; and column 7 lines 35-40).

Regarding claims 4 and 27, Dawson as modified by Motta and Lengyel discloses wherein the pseudorandom values represent information relative to at least one characteristic of the original data extracted from the original stream (Motta: paragraph 0030).

Regarding claims 5 and 28, Dawson as modified by Motta and Lengyel discloses wherein the pseudorandom values represent information relative to the position of the original data extracted from the original stream (Motta: paragraph 0030).

Regarding claims 6 and 29, Dawson as modified by Motta and Lengyel discloses wherein at least some of the extracted original data is random (Dawson: column 8 lines 35-44).

Regarding claims 7 and 30, Dawson as modified by Motta and Lengyel discloses wherein the data include original data extracted from the original stream (Dawson: column 9 lines 26-62).

Regarding claims 9 and 31, Dawson as modified by Motta and Lengyel discloses wherein generating data includes generating data based on at least one characteristic of the analyzing (Dawson: column 9 lines 26-62).

Regarding claims 10 and 32, Dawson as modified by Motta and Lengyel discloses storing one or more parameters related to the generating as a result of the analyzing (Dawson: column 7 lines 11-17).

Regarding claims 11 and 33, Dawson as modified by Motta and Lengyel discloses wherein forwarding one or more parameters related to the analyzing to the equipment at the addressee (Dawson: column 5 lines 55-67).

Regarding claim 13, Dawson as modified by Motta and Lengyel discloses wherein synthesizing includes using said data reproducing the pseudorandom values obtained during the analyzing (Dawson: column 10 lines 3-29).

Regarding claim 17, Dawson as modified by Motta and Lengyel discloses wherein the analysis apparatus includes: a generator to generate the at least one sequence of pseudorandom values, and an extractor responsive a sequence of pseudorandom values for extracting original data from original audiovisual sequences to produce said modified main stream and said complementary information (Dawson: column 5, lines 30-33 and column 4 lines 60-67).

Regarding claim 18, Dawson as modified by Motta and Lengyel discloses the extractor produces said complementary information comprising at least some of said extracted original data and at least one sequence of said pseudorandom values (Dawson: column 8 lines 35-44).

Regarding claim 19, Dawson as modified by Motta and Lengyel discloses the extractor produces said complementary information comprising all said extracted original data (column 5, lines 30-33).

Regarding claim 21, Dawson as modified by Motta and Lengyel discloses said receiving includes receiving the modified main stream and the complementary information from a telecommunication network (Dawson: column 1 lines 15-18).

Regarding claim 22, Dawson as modified by Motta and Lengyel discloses said receiving includes receiving only the modified main stream from a telecommunication network and said complementary information is received from an information carrier (Dawson: column 2 lines 62-67).

9. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dawson in view of Motta in view of Lengyel, and further in view of Ferris (US 2003/0177142) (hereinafter Ferris).

Regarding claim 14, Dawson in view of Motta and Lengyel does not disclose wherein the processing is lossless. However, Ferris discloses wherein the processing is lossless (Ferris: paragraphs 0035 and 0041-0043). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have included in Dawson in view of Motta and Lengyel the feature of Ferris as

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discussed above because efficient use of bandwidth without excessive complexity is desirable. Traditionally, DAB high-level protocols (e.g., FIGs, TPEG, etc.) have been parsimonious about resource usage, but at the cost of complexity. The BDB application should aim for simplicity, whilst still providing efficient use of resources. This strongly suggests the use of high-level lossless compression technologies (Ferris: paragraph 0035).

10. Claims 12, 23 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dawson in view of Motta in view of Lengyel, and further in view of Hopkins (US20050139657) (hereinafter Hopkins).

Regarding claims 12, 23 and 34, Dawson in view of Motta and Lengyel does not disclose wherein said complementary information is received from a smart card. However, Hopkins discloses wherein said complementary information is received from a smart card (Hopkins: paragraphs 0014 and 0016). Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to have included in Dawson in view of Motta and Lengyel the feature of Hopkins as discussed above for supporting a different way to transport the complementary information conveniently and efficiently to the receiver.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRANG DOAN whose telephone number is (571)272-0740. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William R. Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Trang Doan/
Examiner, Art Unit 2431

/William R. Korzuch/
Supervisory Patent Examiner, Art Unit 2431

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